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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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| Office Action Summary | Application No. 10/824,445 | Applicant(s) LEE ET AL. | |
| | Examiner Alvin H. Tan | Art Unit 2173 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Remarks

1. Claims 1-30 have been examined and rejected. This is the first Office action on the merits.

Information Disclosure Statement

2. U.S. patent document 4,974,386 in the information disclosure statement filed 4/15/04 has not been considered. Examiner notes that a different title has been listed on *[page 1]* of the information disclosure and believes that the reference cited under U.S. patent documents belongs to another case because it is in no way related to the application. U.S. Patent No. 4,974,386 is directed towards tool driving or impacting.
3. All the U.S. patent documents as well as foreign patent document 1126126A1 listed in the information disclosure statement filed 10/27/04 have not been considered because they are in no way related to the application. The U.S. patent documents and foreign patent document are all directed towards a door for a stove. Foreign patent documents 1106932A2 and 1106932A3 fail to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language.

4. The references have been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in the information disclosure statements or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Drawings

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "921" has been used to designate both the connector and the microprocessor. See *[figure 2; page 1, paragraph 4 of specification]*.

6. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 351 *[paragraph 117]*, 352a, b, c *[paragraph 117]*, 361 *[paragraph 118]*.

7. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 353a, b, c *[figure 18]*, 325a, b, c *[figure 18]*.

8. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

9. Claims 22-28 are objected to because of the following informalities:
- a. On *[line 3]* of claim 22, Examiner suggests changing "a interface" to --an interface--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

10. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

11. Claims 9-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a. Claim 9 recites the limitation "the menu button" in *[line 1]* of the claim.

There is insufficient antecedent basis for this limitation in the claim.

b. Claim 18 recites the limitation "the picture" in *[lines 2-3]* of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

13. Claims 1, 7, 22, and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Narui (U.S. Patent No. 6,278,433 B2).

13-1. Regarding claims 1, 22, and 29, Narui teaches a user interface to change a display setting of a picture area of a display apparatus, which communicates with an external device, by disclosing a method for adjusting a monitor having a screen *[column 1, lines 46-53]*. The monitor is connected to a computer *[figure 1]*.

Narui teaches the claim comprising displaying a main window, including a step start button to initiate a sequence of at least first and second display setting adjustment windows in which first and second display setting adjustments are made and sequentially displaying the display setting adjustment windows corresponding to a selection of the step start button, by disclosing a setup wizard window to begin setup of the monitor [*column 3, lines 19-23, 30-32; figure 3*]. The setup includes a sequence of windows [*figures 4-8*].

Narui teaches adjusting the display setting through the displayed display setting adjustment windows, by disclosing that adjustments to the monitor may be made using the setup [*column 1, lines 48-53*].

Narui teaches issuing a command from the external device in correspondence to adjusting the displayed display setting adjustment windows and setting the display setting in correspondence to the command, by disclosing that during the setup process, the processing unit of the computer signals the monitor to adjust its settings according to the user's preferences [*column 2, lines 50-55; column 4, lines 3-15*].

As per claim 22, the display apparatus must inherently contain a microprocessor in order to display the wizard window.

13-2. Regarding claim 7, Narui teaches the claim wherein at least one of the display setting adjustment windows comprise an undo button to undo the display setting adjustment, by disclosing a cancel button as shown in [*figures 5A-7A*].

Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 2 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2) and Fukumoto et al (Pub. No. US 2002/0054146 A1).

14-1. Regarding claims 2 and 30, Narui teaches the invention substantially as claimed. See section 13-1. Narui does not expressly teach the claim wherein the main window includes a menu button to separately adjust the display settings. Fukumoto teaches a hierarchical menu that displays adjustable items on a screen for making adjustments to audio-visual equipment comprising a display [paragraph 1]. This allows users to be able to select a specific item to adjust. Since Narui teaches adjusting a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the hierarchical menu as taught by Fukumoto. This would allow users to select a specific item to adjust rather than having to step through each item.

15. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2) and Naito (U.S. Patent No. 6,693,629 B1).

15-1. Regarding claim 3, Narui teaches the invention substantially as claimed. See section 13-1. Narui further teaches the claim wherein the display setting adjustments are selected from a picture position adjustment, resolution adjustment, contrast adjustment, and brightness adjustment, by disclosing that the basic set up process adjusts the monitor parameters including resolution, brightness, size, center position, and tilt position [*column 3, lines 43-49*].

Narui does not expressly teach a color temperature adjustment and a clock and phase adjustment. Naito teaches allowing users to adjust and save settings for a display device [*column 2, line 62 to column 3, line 3*]. Users can adjust parameters including clock and phase, position, contrast, brightness, and color [*column 8, lines 27-38*]. This allows users to adjust the image quality of the display device as they see fit. Since Narui teaches adjusting a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include options to adjust a color and clock and phase adjustment, as taught by Naito. This would give the users additional settings for adjusting the image quality of the display device as they see fit.

16. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2), McLaughlin et al (U.S. Patent No. 5,739,809), and Examiner statement of Official Notice.

16-1. Regarding claim 4, Narui teaches the invention substantially as claimed. See section 13-1. Although Narui teaches storing a monitor ID for the adjusted monitor in a file at the end of the sequence [*column 6, line 59 to column 7, line 3*], Narui does not expressly teach saving the adjusted display settings. McLaughlin teaches a method and apparatus for calibrating a display device [*column 1, lines 10-16*] and saving the calibrations in separate data files so that the user can retrieve and edit selected ones of the data files [*column 3, lines 31-40*]. This allows the user to store a set of adjustment data and later retrieve the stored data for use in modifying a prestored base set of display control parameters [*column 16, lines 29-36*]. Since Narui teaches adjusting a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include storing the adjusted display settings as a file and being able to open the files to adjust a display setting on the basis of the saved adjusted display setting in the opened file, as taught by McLaughlin. This would allow the user to store a set of adjustment data and later retrieve the stored data for use in modifying a prestored base set of display control parameters.

Narui and McLaughlin do not expressly teach wherein a last display setting adjustment window in the sequence includes a button to open an adjustment save window to save adjusted display settings. However, Examiner takes Official Notice that it is common for programs to include a save menu button for opening a save window to save program data. This can be seen in many commonly used Windows applications such as Microsoft Word and Microsoft Excel. This provides users with an intuitive way to save data to a file. Thus, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to include a button to open a save window to save the adjusted display settings since Examiner takes Official Notice that it is common for programs to include a save menu button for opening a save window to save program data. Such a menu button would provide the user with an intuitive way to save data to a file.

16-2. Regarding claim 5, Narui and McLaughlin teach the claim further comprising saving the adjusted display settings as a file through the adjustment save window *[McLaughlin, column 3, lines 31-40]*.

16-3. Regarding claim 6, Narui and McLaughlin teach the claim further comprising opening the file and adjusting a display setting on the basis of the saved adjusted display setting in the opened file, by disclosing that the user can retrieve and edit the saved data files *[column 3, lines 31-40]*.

17. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2) and Hidetoshi (JP 09-281942).

17-1. Regarding claim 8, Narui teaches the invention substantially as claimed. See section 13-1. Narui does not expressly teach a reset button to return the display setting to a default setting. Hidetoshi teaches screen adjustment for display devices *[paragraph 1]*. A reset button is provided that cancels any adjustments made and returns screen

settings to a standard value *[paragraph 13]*. This allows users to restore default screen settings. Since Narui teaches adjusting a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a reset button for returning the display setting to a default setting, as taught by Hidetoshi. This is useful in cases where a user wishes to cancel any adjustments made and restore the screen settings to a default setting.

18. Claims 9-11, 14, 17, 18, 20, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2), Fukumoto et al (Pub. No. US 2002/0054146 A1), Naito (U.S. Patent No. 6,693,629 B1), and McLaughlin et al (U.S. Patent No. 5,739,809).

18-1. Regarding claim 9, Narui teaches the invention substantially as claimed. See section 13-1. Narui does not expressly teach a plurality of menu buttons comprising a display button and a geometry button wherein when each menu button is selected, a window to adjust the display setting belonging to the corresponding setting group is opened. Fukumoto teaches a hierarchical menu that displays adjustable items on a screen for making adjustments to audio-visual equipment comprising a display *[paragraph 1]*. The menu is organized in a way that groups related items together. As shown in *[figure 2]*, separate menus are displayed that relate to the display (image quality) and geometry (image quality mode) of the display device. Providing the hierarchical menu and grouping the items in this way allows users to be able to more

intuitively select a specific item to adjust. Since Narui teaches allowing a user to adjust settings of a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the hierarchical menus as taught by Fukumoto and grouping related items within the hierarchical menu. Thus, settings for the resolution, brightness, and contrast of Narui would be grouped together in the image quality menu. This would allow users to more intuitively select a specific item to adjust rather than having to step through each item.

Narui and Fukumoto do not expressly teach the display button including a clock and phase setting. Naito teaches allowing users to adjust and save settings for a display device [*column 2, line 62 to column 3, line 3*]. Users can adjust parameters including clock and phase [*column 8, lines 27-31*]. This gives the user an additional setting for adjusting the image quality of the display device. Since Narui and Fukumoto teach adjusting a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include in the menu relating to the display, a clock and phase adjustment, as taught by Naito. This would give the users an additional setting for adjusting the image quality of the display device as they see fit.

Narui, Fukumoto, and Naito do not expressly teach a color button corresponding to a third setting group including a calibration setting and a color temperature setting. McLaughlin teaches a method and apparatus for calibrating a display device [*column 1, lines 10-16*]. A color button item relating to adjusting color is provided [*figure 3; column 9, line 56 to column 11, line 7*]. This provides the user with an additional setting for adjusting the display device. Since Narui, Fukumoto, and Naito teach adjusting a

display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include in the hierarchical menu, a color button for adjusting a calibration setting and a color temperature setting, as taught by McLaughlin. This provides the user with an additional setting for adjusting the display device.

18-2. Regarding claim 10, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein when the display button is selected, a display adjusting window is opened, the display adjusting window comprising a resolution button corresponding to the resolution setting, a brightness button corresponding to the brightness setting, a contrast button corresponding to the contrast setting, and a picture setup button corresponding to the clock and phase setting, is opened, by disclosing that when the image quality menu button is selected from the main menu, an image quality submenu is displayed on the screen along with buttons to allow users to adjust the items contained within the submenu [*Fukumoto, paragraphs 35-37*]. As discussed in section 18-1, the image quality submenu would contain a resolution, brightness, contrast, and clock and phase adjustment setting.

18-3. Regarding claim 11, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein when one of the buttons is selected, an adjusting window, in which a display setting adjustment corresponding to the selected button is made, is opened, by disclosing opening windows to adjust a display setting [*McLaughlin, figures 5-8*]. Rather than adjusting values within the submenu, opening a new window to adjust display

settings allows more screen real estate for providing various controls in making the adjustment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to open an adjusting window when one of the buttons is selected, as taught by McLaughlin. This would allow more screen real estate for providing various controls in making the adjustment.

18-4. Regarding claim 14, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein when the geometry button is selected, a geometry setting window, including a position button, corresponding to the second setting group, is opened, by disclosing image quality mode submenu including buttons to allow users to adjust the position of the display device [*Fukumoto, figure 2*].

18-5. Regarding claim 17, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein when the color button is selected a color adjusting window, including a calibration button corresponding to a calibration setting and a color temperature button corresponding to a color temperature of the picture displayed by the display apparatus, is opened, by disclosing that the hierarchical menu would have a color button item relating to adjusting a calibration setting and color temperature as discussed in section 18-1.

18-6. Regarding claim 18, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein when a user selects the color temperature button, a color temperature adjusting

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window, in which a color temperature of the picture displayed by the display apparatus is adjusted, is opened, by disclosing a color button item relating to adjusting color is provided that, when selected, opens a window for adjusting color settings [*McLaughlin, figures 3, 6; column 9, line 56 to column 11, line 7*].

18-7. Regarding claim 20, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein the adjusting window comprises an undo button to undo a color temperature adjustment, by disclosing a cancel button that returns any adjusted values to their previously saved values [*McLaughlin, column 11, lines 8-14*].

Narui, Fukumoto, Naito, and McLaughlin teach an animation window to show an animation of a color temperature adjustment, by disclosing that the main display displays current settings of the color as they are adjusted by the user [*McLaughlin, column 10, lines 29-32*].

Although Narui, Fukumoto, Naito, and McLaughlin teach providing recommended adjustments to the various settings of the display device [*Narui, column 3, lines 33-35*]. Since color temperature is one of the settings adjustable by the user [*McLaughlin, column 15, lines 21-36*], it would have been obvious to one of ordinary skill in the art to include displaying recommended values, as taught by Narui, for color temperature.

19. Claims 12, 15, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2), Fukumoto et al (Pub. No. US

2002/0054146 A1), Naito (U.S. Patent No. 6,693,629 B1), McLaughlin et al (U.S. Patent No. 5,739,809), and Yamamoto (U.S. patent No. 6,343,147 B2).

19-1. Regarding claim 12, Narui, Fukumoto, Naito, and McLaughlin teach the invention substantially as claimed. See section 18-3. Narui, Fukumoto, Naito, and McLaughlin do not expressly teach wherein the adjusting window comprises a pattern activating button to open a pattern window having an image which is changed as the display setting adjustment are made in the adjusting window. Yamamoto teaches an image processing method and apparatus for adjusting settings of an image [*column 2, lines 27-32*]. Users can adjust settings of the monitor and preview the adjusted settings [*figures 7, 6*]. This allows the user to preview settings before confirming them. Since Narui, Fukumoto, Naito, and McLaughlin teach adjusting settings of a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a button for opening a preview window having an image that is changed based on adjustments made on the settings of the display, as taught by Yamamoto. This would allow users to preview settings before confirming them.

19-2. Regarding claim 15, Narui, Fukumoto, Naito, and McLaughlin teach the invention substantially as claimed. See section 18-4. Narui, Fukumoto, Naito, and McLaughlin do not expressly teach wherein the adjusting window comprises a pattern activating button to open a pattern window having a picture which is changed as the display setting adjustment are made in the adjusting window. Yamamoto teaches an image processing

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method and apparatus for adjusting settings of an image [column 2, lines 27-32]. Users can adjust settings of the monitor and then preview the adjusted settings [figures 7, 6]. This allows the user to preview settings before confirming them. Since Narui, Fukumoto, Naito, and McLaughlin teach adjusting settings of a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a button for opening a preview window having a picture that is changed based on adjustments made in the adjustment window, as taught by Yamamoto. This would allow users to preview settings before confirming them.

19-3. Regarding claim 19, Narui, Fukumoto, Naito, and McLaughlin teach the invention substantially as claimed. See section 18-6. Narui, Fukumoto, Naito, and McLaughlin do not expressly teach wherein the color temperature adjusting window comprises a pattern activating button, wherein when the pattern activating button is selected, a color temperature pattern window, having a picture with a color temperature that is changed as the color temperature is adjusted in the color temperature adjustment window, is opened. Yamamoto teaches an image processing method and apparatus for adjusting settings of an image [column 2, lines 27-32]. Users can adjust settings of the monitor, including color temperature, and then preview the adjusted settings [figures 7, 6]. This allows the user to preview settings before confirming them. Since Narui, Fukumoto, Naito, and McLaughlin teach adjusting settings of a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a button for opening a preview window having a picture with a color temperature that is

changed as the color temperature is adjusted in a color temperature adjusting window, as taught by Yamamoto. This would allow users to preview settings before confirming them.

20. Claims 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2), Fukumoto et al (Pub. No. US 2002/0054146 A1), Naito (U.S. Patent No. 6,693,629 B1), McLaughlin et al (U.S. Patent No. 5,739,809), and Hidetoshi (JP 09-281942).

20-1. Regarding claim 13, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein the adjusting window comprises an undo button to undo the display setting adjustment, by disclosing a cancel button as shown in *[Narui, figures 5A-6]*.

Narui, Fukumoto, Naito, and McLaughlin teach an animation window to show an animation of the display setting adjustment, by disclosing that the main display displays current settings such as brightness and contrast as they are adjusted by the user *[McLaughlin, column 9, lines 35-40]*.

Narui, Fukumoto, Naito, and McLaughlin do not expressly teach a reset button to return the display setting to a default setting. Hidetoshi teaches screen adjustment for display devices *[paragraph 1]*. A reset button is provided that cancels any adjustments made and returns screen settings to a standard value *[paragraph 13]*. This allows users to restore default screen settings. Since Narui, Fukumoto, Naito, and McLaughlin teach adjusting a display device, it would have been obvious to one of ordinary skill in the art

at the time the invention was made to include a reset button for returning the display setting to a default setting, as taught by Hidetoshi. This is useful in cases where a user wishes to cancel any adjustments made and restore the screen settings to a default setting.

20-2. Regarding claim 16, Narui, Fukumoto, Naito, and McLaughlin teach the claim wherein the adjusting window comprises an undo button to undo a position adjustment, by disclosing a cancel button as shown in *[Narui, figures 7A]*.

Narui, Fukumoto, Naito, and McLaughlin teach an animation window to show an animation of the display setting adjustment, by disclosing that the main display displays current settings of the position as they are adjusted by the user *[McLaughlin, column 12, lines 54-58]*.

Narui, Fukumoto, Naito, and McLaughlin do not expressly teach a reset button to return the display setting to a default setting. Hidetoshi teaches screen adjustment for display devices *[paragraph 1]*. A reset button is provided that cancels any adjustments made and returns screen settings to a standard value *[paragraph 13]*. This allows users to restore default screen settings. Since Narui, Fukumoto, Naito, and McLaughlin teach adjusting a display device, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a reset button for returning the display setting to a default setting, as taught by Hidetoshi. This is useful in cases where a user wishes to cancel any adjustments made and restore the screen settings to a default setting.

21. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2), Fukumoto et al (Pub. No. US 2002/0054146 A1), Naito (U.S. Patent No. 6,693,629 B1), McLaughlin et al (U.S. Patent No. 5,739,809), and Examiner statement of Official Notice.

21-1. Regarding claim 21, Narui, Fukumoto, Naito, and McLaughlin teach the invention substantially as claimed. See section 18-1. Narui, Fukumoto, Naito, and McLaughlin further teach wherein the menu further comprises addition buttons for opening additional option and support windows, by disclosing the hierarchical menu as shown in *[Fukumoto, figure 2]*. The main menu contains a various setting button that allows users to further select additional options. Examiner notes that there are no limitations within the claim that associate any further functional control with the buttons. Narui, Fukumoto, Naito, and McLaughlin do not expressly teach a magic bright, preference, upgrade, technical, asset ID, and version button. However, Examiner takes Official Notice that it is common to include additional buttons on a main menu for providing functional operations as well as display descriptive information about the application being used. This would provide a user intuitive method of selecting a function of the program. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the additional buttons on the menu, since Examiner takes Official Notice that it is common to include additional buttons on a main menu for providing

functional operations as well as display descriptive information about the application being used.

22. Claims 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2) and Examiner statement of Official Notice.

22-1. Regarding claim 23, Narui teaches the invention substantially as claimed. See section 13-1. Although Narui teaches a display monitor [*column 2, lines 43-46*], Narui does not expressly teach a scalar to fit the digitalized signal to the size of an LCD panel and transmitting the digitalized signal to a panel driving part operating the LCD panel. However, Examiner takes Official Notice that liquid crystal displays (LCD) are commonly used as a display device for computers. LCDs are lighter in weight than CRT monitors. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use an LCD monitor as the display device since Examiner takes Official Notice that LCD monitors are commonly used as display devices. This would provide a lightweight alternative to the traditional CRT displays. The LCD monitor would inherently comprise an A/D converter, a scalar, a backlight, and a power supply.

22-2. Regarding claim 24, the computer of Narui would inherently have to include a graphic controller and a stored display setting program for carrying out the functions of the program.

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22-3. Regarding claim 25, the microprocessor of Narui inherently controls the A/D controller, the scalar, and the panel driving part according to commands from the graphic controller.

22-4. Regarding claim 26, Narui teaches wherein when a user selects an item with an input unit, the display setting program issues a corresponding command to the graphic controller to adjust a corresponding display setting, by disclosing that when a user changes a setting for the display device, a corresponding display setting is changed *[column 4, lines 19-26]*.

23. Claims 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narui (U.S. Patent No. 6,278,433 B2) and Arai (Pub. No. US 2003/0197659 A1).

23-1. Regarding claim 27, Narui teaches the invention substantially as claimed. See section 13-1. Narui does not expressly teach the claim wherein the interface employs a Display Data Channel Common Interface. Arai teaches a computer (11) connected to an image display apparatus (13) *[figure 1]*. A two-way communication interface such as DDC-CI may be used *[paragraph 87]*. Using the standard simplifies software and hardware configurations in the PC and the display monitor. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use DDC-CI as an interface to communicate with the computer, as taught by Arai. This would simplify software and hardware configurations in the PC and the display monitor.

23-2. Regarding claim 28, Narui teaches the invention substantially as claimed. See section 13-1. Narui does not expressly teach wherein the interface employs a Universal Serial Bus (USB). Arai teaches a computer (11) connected to an image display apparatus (13) [figure 1]. A two-way communication interface such as USB may be used [paragraph 87]. Using the standard simplifies software and hardware configurations in the PC and the display monitor. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use USB as an interface to communicate with the computer, as taught by Arai. This would simplify software and hardware configurations in the PC and the display monitor.

Conclusion

24. The prior art made of record on attached form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R § 111(c) to consider these references fully when responding to this action. The documents cited therein teach similar systems for adjusting display settings.

25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin H. Tan whose telephone number is 571-272-8595. The examiner can normally be reached on Mon-Fri 10:00-6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on 571-272-4048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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